

**Preliminary Dredge Quantity Estimates
Hammer Island and Tracy Oasis Areas**

Hammer Island Area

Bank Areas of Islands

Dredge circumference of islands 50 feet out from bank.

Depth to vary from 4 feet at bank to 0 feet at outer limit.

	C (ft)	w (ft)	d1 (ft)	d2 (ft)	V (cu yd)	
Middleton	1,700	50	4	0	6,296	cubic yards
Hammer	1,200	50	4	0	4,444	cubic yards
Little Hawaii	1,000	50	4	0	3,704	cubic yards

Area between Middleton Island and south levee of Old River

L (ft)	w (ft)	d1 (ft)	d2 (ft)	V (cu yd)	
500	50	4	0	1,852	cubic yards

Area between Hammer Island and south levee of Old River from Middleton Island to Little Hawaii Island

L (ft)	w (ft)	d1 (ft)	d2 (ft)	V (cu yd)	
500	100	4	4	7,407	cubic yards

Dredge Volume (Hammer Island Area) = 23,704 cubic yards

Tracy Oasis Area

Dredge Tracy Oasis Marina 50 feet from bank for length of marine plus 100 feet at each end.

Depth to vary from 4 feet at bank to 0 feet at outer limit.

L (ft)	w (ft)	d1 (ft)	d2 (ft)	V (cu yd)	
1,500	50	4	0	5,556	cubic yards

Dredge south half of the area between flow barrier and Tracy Boulevard to remove existing sand bar.

Depth to be 4 feet over entire area.

L (ft)	w (ft)	d1 (ft)	d2 (ft)	V (cu yd)	
300	100	4	4	4,444	cubic yards

Dredge Volume (Tracy Oasis Area) = 10,000 cubic yards

Total Project Dredge Volume = 33,704 cubic yards